

## EAST Search History

| Ref # | Hits  | Search Query  | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|-------|---|--|------------------|---------|------------------|
| L1    | 5614  | (375/316.ccls.)or (375/22.1.ccls.)or (375/259.ccls.)or (375/256.ccls.)or (375/257.ccls.)or (375/136.ccls.)or (375/239.ccls.)or (375/327.ccls.)or (375/242.ccls.)and ramp with signal  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 16:02 |
| L2    | 22824 | (375/316.ccls.)or (375/22.1.ccls.)or (375/259.ccls.)or (375/256.ccls.)or (375/257.ccls.)or (375/136.ccls.)or (375/239.ccls.)or (375/327.ccls.)or (375/242.ccls.)and ramp with signaland first adj delay   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 16:02 |
| L3    | 5726  | (375/316.ccls.)or (375/22.1.ccls.)or (375/259.ccls.)or (375/256.ccls.)or (375/257.ccls.)or (375/136.ccls.)or (375/239.ccls.)or (375/327.ccls.)or (375/242.ccls.)and ramp with signaland first adj delay with first adj voltage                                  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 16:03 |
| L4    | 5607  | (375/316.ccls.)or (375/22.1.ccls.)or (375/259.ccls.)or (375/256.ccls.)or (375/257.ccls.)or (375/136.ccls.)or (375/239.ccls.)or (375/327.ccls.)or (375/242.ccls.)and ramp with signaland first adj delay with first adj voltage with voltage adj ramp adj signal | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 16:14 |
| L5    | 36    | "5237322"   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/07/29 16:14 |
| S1    | 3787  | 375/316   | USPAT  | OR               | OFF     | 2007/07/18 16:43 |
| S2    | 155   | 375/316 and N adj bits  | USPAT  | OR               | OFF     | 2007/04/23 09:01 |
| S3    | 6     | 375/316 and N adj bits and p adj bits   | USPAT  | OR               | OFF     | 2007/04/23 09:17 |
| S4    | 0     | 375/316 and N adj bits and N adj data with pulses   | USPAT  | OR               | OFF     | 2007/07/19 12:09 |
| S5    | 20    | N adj bits and N adj data with pulses   | USPAT  | OR               | OFF     | 2007/04/23 09:25 |
| S6    | 0     | N adj bits with pulses and N-P adj bits   | USPAT  | OR               | OFF     | 2007/04/23 09:26 |
| S7    | 14    | N adj bits and N-P adj bits   | USPAT  | OR               | OFF     | 2007/04/23 11:00 |

## EAST Search History

|     |        |   |  |    |     |                  |
|-----|--------|---|--|----|-----|------------------|
| S8  | 264326 | digital adj data with encod\$2 and data ajd pulses      | USPAT  | OR | OFF | 2007/04/23 11:01 |
| S9  | 324534 | encod\$3 with data ajd pulses                           | USPAT  | OR | OFF | 2007/04/23 11:02 |
| S10 | 773568 | encod\$3 with data ajd pulses                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:02 |
| S11 | 207910 | encod\$3 with data ajd pulses and p adj bits            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:03 |
| S12 | 334    | encod\$3 with data adj pulses                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:04 |
| S13 | 472341 | encod\$3 with data adj pulses and N bits                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:04 |
| S14 | 5      | 375/316 and encod\$3 with data adj pulses               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:09 |
| S15 | 6      | 375/316 and encod\$3 with (digital adj data)with pulses | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:10 |

## EAST Search History

|     |        |  |  |    |     |                  |
|-----|--------|--|--|----|-----|------------------|
| S16 | 131    | single adj pin with interface                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:21 |
| S17 | 22     | "4,897,854"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:33 |
| S18 | 25     | "5,625,722"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:35 |
| S19 | 575052 | integrated adj circuit                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:36 |
| S20 | 7193   | integrated adj circuit with latch\$3               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 11:36 |
| S21 | 1      | integrated adj circuit with latch\$3<br>adj pulses | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/04/23 12:45 |
| S22 | 1842   | receiv\$3 with data adj pulse\$1                   | USPAT  | OR | OFF | 2007/04/27 11:40 |
| S23 | 280    | voltage adj ramp adj signal                        | USPAT  | OR | OFF | 2007/04/27 11:41 |
| S24 | 2      | S22 and S23  | USPAT  | OR | OFF | 2007/04/27 11:41 |
| S25 | 1      | S22 same S23                                       | USPAT  | OR | OFF | 2007/04/27 11:41 |
| S26 | 0      | ("7183823").URPN.                                  | USPAT  | OR | OFF | 2007/04/27 11:42 |
| S27 | 0      | ("7183823").URPN.                                  | USPAT  | OR | OFF | 2007/04/27 11:42 |

## EAST Search History

|     |      |   |  |    |     |                  |
|-----|------|---|--|----|-----|------------------|
| S28 | 6    | ("3393363"   "6057675"   "6208216"   "6208516"   "6825644").PN.                         | US-PGPUB;<br>USPAT;<br>USOCR                                     | OR | OFF | 2007/04/27 11:42 |
| S29 | 21   | ("6057675").URPN.   | USPAT  | OR | OFF | 2007/04/27 16:11 |
| S30 | 4    | "5031988"   | USPAT  | OR | OFF | 2007/04/27 16:11 |
| S31 | 7    | ("4529312"   "4545682"   "4662751"   "4779975"   "4842358"   "4887900"   "4906096").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                     | OR | OFF | 2007/04/27 16:13 |
| S32 | 36   | ("4529312").URPN.   | USPAT  | OR | OFF | 2007/04/27 16:14 |
| S33 | 1    | "20050175120"   | US-PGPUB;<br>USPAT   | OR | OFF | 2007/04/28 17:09 |
| S34 | 219  | Gater "Christian.in"  | US-PGPUB;<br>USPAT   | OR | OFF | 2007/04/28 17:09 |
| S35 | 0    | Gaiter-Christian.inv.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/18 17:15 |
| S36 | 446  | voltage adj ramp adj signal   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/18 17:15 |
| S37 | 6063 | ramp adj signal   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/19 11:53 |
| S38 | 0    | 371/22.1.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/19 11:54 |
| S39 | 0    | "371"/\$.   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/07/19 11:54 |

## EAST Search History

|     |         |  |  |    |    |                  |
|-----|---------|--|--|----|----|------------------|
| S40 | 1922    | 375/316.ccls.  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 11:55 |
| S41 | 10      | 375/316.ccls. and S37  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 11:59 |
| S42 | 6779417 | receiv\$4 with data adj pulses<br>smae first or second near2 pulse<br>near1 separat\$3 | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:02 |
| S43 | 7636    | generat\$3 near S38 voltage with<br>ramp with signal                                   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:03 |
| S44 | 6638    | S42 and S43  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:03 |
| S45 | 1443533 | resett\$4 or starting or begin\$5<br>with voltage near1 ramp adj signal                | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:05 |
| S46 | 2873    | S44 and S45  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:06 |
| S47 | 57937   | S44 and S45 and first or second<br>adj voltage   | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/19 12:07 |

## EAST Search History

|     |         |  |  |    |     |                  |
|-----|---------|--|--|----|-----|------------------|
| S48 | 8609451 | (first logic state)  | US-PGPUB;<br>USPAT;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB           | OR | ON  | 2007/07/19 12:09 |
| S49 | 0       | 375/316 and N adj bits and N adj data with pulses and "37" | USPAT  | OR | OFF | 2007/07/19 12:11 |
| S50 | 67      | data adj pulses and ramp adj signal                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/07/19 12:11 |
| S51 | 46      | ("3883756").URPN.  | USPAT  | OR | ON  | 2007/07/19 12:17 |
| S52 | 8       | ("3510786").URPN.  | USPAT  | OR | ON  | 2007/07/19 12:21 |
| S53 | 7       | ("3401346").URPN.  | USPAT  | OR | ON  | 2007/07/19 12:24 |
| S54 | 0       | 372/22.1   | USPAT  | OR | ON  | 2007/07/19 12:25 |
| S55 | 0       | 372/22.1.ccls.   | USPAT  | OR | ON  | 2007/07/19 12:25 |
| S56 | 0       | 371/22.1.ccls.   | USPAT  | OR | ON  | 2007/07/19 12:25 |